

Claims

[c1] What is claimed is:

1. A method for having hot water through a plumbing system to a hot water outlet, comprising the steps of: providing a hot water supply line, a water heater, and a plurality of hot water outlets from said hot water supply line;

having a control module connected to a manifold with a valve, a pump and flow switch;

having said pump and said flow switch connect to the water supply line between the line and the water heater in connection for said water heater; and

having said pump move hot water through said hot water line for a set run time with set time intervals.

[c2] 2. The method of claim 1 including having said control panel having an adjustment means to change said run time and said interval.

[c3] 3. The method in claim 1 including having said control panel having a display means to display said run time and said interval.

[c4] 4. The method in claim 1 including having a hot water

return line connected to said hot water line at one end on said manifold with a valve at the other end.

- [c5] 5. The method in claim 4 wherein said manifold with a valve is connected to a T-fitting into the water supply line.
- [c6] 6. The method in claim 1 including having the hot water line purged through the cold water line.
- [c7] 7. The method in claim 6 wherein said manifold with a valve is between the hot water line and the cold water line.
- [c8] 8. The method in claim 1 wherein said flow switch determines if there is no flow of hot water, if there is no flow of hot water said control module will adjust the wait time interval.
- [c9] 9. The Method in claim 1 including having a user test to water flow to find the optimum run time and interval time.
- [c10] 10. The Method in claim 1 including closing said solenoid valve on a delay to prevent a water-hammer effect.
- [c11] 11. An apparatus for saving hot water through a plumbing system through a hot water outlet, comprising of:

a hot water supply line, a water heater, and a plurality of hot water outlets from said hot water supply line;
a control module connected to a manifold with a valve, a pump and flow switch;
said pump and said flow switch connect to the water supply line between the line and the water heater in connection for said water heater; and
said pump move hot water through said hot water line for a set run time a at set intervals.

[c12] 12. An apparatus of claim 1 including said control panel having an adjustment means to change said run time and said interval.

[c13] 13. An apparatus in claim 1 including said control panel having a display means to display said run time and said interval.

[c14] 14. An apparatus in claim 1 including a hot water return line connected to said hot water line at one end on said manifold with a valve at the other end.

[c15] 15. An apparatus in claim 4 wherein said manifold with a valve is connected to a T fitting into the water supply line.

[c16] 16. An apparatus in claim 1 including having the hot water line purged through the cold water line.

- [c17] 17. An apparatus in claim 6 wherein said manifold with a valve is between the hot water line and the cold water line.
- [c18] 18. An apparatus in claim 1 wherein said flow switch determines if there is no flow of hot water, if there is no flow of hot water said control module will adjust the wait time interval.
- [c19] 19. The Method in claim 1 including the user testing to water flow to find the optimum run time and interval time.
- [c20] 20. The Method in claim 1 including said solenoid valve closing on a delay to prevent a water-hammer effect.